

SEQUENCE LISTING

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<110> Reinl, Stephen
      Lindbo, John
      Turpen, Thomas
<120> CREATION OF VARIABLE LENGTH AND SEQUENCE LINKER REGIONS
      FOR DUAL-DOMAIN OR MULTI-DOMAIN MOLECULES
<130> 42205
<140> 09/667,237
<141> 2000-09-22
<150> US 60/155,978
<151> 1999-09-24
<160> 51
<170> PatentIn Ver. 2.1
<210> 1
<211> 9
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Glycine rich
      linker
<400> 1
Pro Gly Ile Ser Gly Gly Gly Gly
  1
                  5
<210> 2
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Asparagine
      rich linker
<400> 2
Asn Asn Asn Asn Asn Asn Asn Asn Asn Leu Gly Ile Glu Gly Arg
  1
                                     10
<210> 3
<211> 15
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: (Gly4-Ser)3

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<400> 3
Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser
  1
<210> 4
<211> 30
<212> DNA
<213> Artificial Sequence
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<223> Description of Artificial Sequence: VH domain
      forward primer
<400> 4
gtggcatgca ggttcaactg gtggagtctg
                                                                  30
<210> 5
<211> 26
<212> DNA
<213> Artificial Sequence
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<223> Description of Artificial Sequence: VH domain
      reverse primer
<220>
<223> "asy" can appear from 1 to 50 times before the
      remainder of the sequence
<400> 5
asytgaggag acggtgacca gggttc
                                                                  26
<210> 6
<211> 41
<212> DNA
<213> Artificial Sequence
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<223> Description of Artificial Sequence: VH domain
      reverse primer, first reaction
<400> 6
asyasyasya syasyasytg aggagacggt gaccagggtt c
                                                                  41
<210> 7
<211> 50
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: VH domain
      reverse primer, second reaction
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<400>		. .
asyasy	asya syasyasyas yasyasytga ggagacggtg accagggttc	50
<210><211><211><212><213>	29	
	Description of Artificial Sequence: VL domain forward primer	
	"rst" can appear from 1 to 50 times before the remainder of the sequence	
<400> rstgac	8 cattc agatgaccca gtctccttc	29
<210><211><211><212><213>	39	- · · =
<220> <223>	Description of Artificial Sequence: VL domain reverse primer	
<400> caccct	9 . Lagge tategtttga teagtacett ggteecetg	39
<210> <211> <212> <213>	44	
<220> <223>	Description of Artificial Sequence: VL domain forward primer, third reaction	
<400> rstrst	10 trstr strstrga cattcagatg acccagtctc cttc	44
<210><211><211><212><213>	53	
<220> <223>	Description of Artificial Sequence: VL domain forward primer, fourth reaction	
<400>	11	

rstrst	rstr strstrs trstrstgac attcagatga cccagtctcc ttc	53
<210> <211> <212>	39 DNA	
<213>	Artificial Sequence	
<220>		•
<223>	Description of Artificial Sequence: Linker region nucleotide sequence	
<400>		
actact	gcta ctggtgctag tactactgct ggtgctagt	39
<210>		
<211><212>		
	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Linker region amino acid sequence	
<400>	13	
Thr Th	or Ala Thr Gly Ala Ser Thr Thr Ala Gly Ala Ser 5 10	
<210>		
<211><212>		
	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Linker region nucleotide sequence	
<400>	14	
gctact	tgctg ctagtggtgc tgctgctggt ggtggtact	39
<210>	15	
<211>		
<212> <213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Linker region amino acid sequence	
<400>	15	
Ala Ti	hr Ala Ala Ser Gly Ala Ala Gly Gly Gly Thr 5 10	

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<210> 16
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 <223> Description of Artificial Sequence: Linker region
       nucleotide sequence
 <400> 16
 gctactggtg ctagtactag tgctactgct ggtggtagt
                                                                 39
  <210> 17
  <211> 13
  <212> PRT
  <213> Artificial Sequence
  <220>
  <223> Description of Artificial Sequence: Linker region
       amino acid sequence
  <400> 17
  Ala Thr Gly Ala Ser Thr Ser Ala Thr Ala Gly Gly Ser
<210> 18
  <211> 39
  <212> DNA
  <213> Artificial Sequence
  <220>
  <223> Description of Artificial Sequence: Linker region
        nucleotide sequence
  <400> 18
  agtactgctg ctggtactag tagtggtagt agtactggt
                                                                  39
  <210> 19
  <211> 13
  <212> PRT
  <213> Artificial Sequence
  <220>
  <223> Description of Artificial Sequence: Linker region
        amino acid sequence
  <400> 19
  Ser Thr Ala Ala Gly Thr Ser Ser Gly Ser Ser Thr Gly
                                      10
  <210> 20
  <211> 51
  <212> DNA
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Linker region
      nucleotide sequence
<400> 20
gctagtactg ctactagtag tggtggtggt ggtactggta gtagtgctgc t
                                                                   51
<210> 21
<211> 17
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Linker region
      amino acid sequence
<400> 21
Ala Ser Thr Ala Thr Ser Ser Gly Gly Gly Thr Gly Ser Ser Ala Ala
                                                          15
                                      10
Ala
<210> 22
 <211> 60
 <212> DNA
 <213> Artificial Sequence
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 <223> Description of Artificial Sequence: Linker region
       nucleotide sequence
 <400> 22
 gctactagta ctgctgctgc tggtgctact agtgctactg gtggtgctag tggtactggt 60
 <210> 23
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: Linker region
       amino acid sequence
 <400> 23
 Ala Thr Ser Thr Ala Ala Gly Ala Thr Ser Ala Thr Gly Gly Ala
                                                           15
                                       10
   1
 Ser Gly Thr Gly
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<210> 24
<211> 39
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Linker region
      nucleotide sequence
<400> 24
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actggtgcta gtggtgctac tagtagtggt agtagtagt
<210> 25
<211> 13
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Linker region
      amino acid sequence
<400> 25
Thr Gly Ala Ser Gly Ala Thr Ser Ser Gly Ser Ser
  1
 <210> 26
 <211> 31
 <212> DNA
 <213> Artificial Sequence
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 <223> Description of Artificial Sequence: VH domain
       forward primer
 <400> 26
                                                                    31
 cctgcatgct ggaggtgcag ttggtggaat c
 <210> 27
 <211> 23
 <212> DNA
 <213> Artificial Sequence
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 <223> Description of Artificial Sequence: VH domain
       reverse primer
 <220>
 <223> "asy" can appear from 1 to 50 times before the
       remainder of the sequence
 <400> 27
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asyagaggag acggtgacca tga

23

<210><211><211><212><213>	32	
<220> <223>	Description of Artificial Sequence: VH domain reverse primer, first reaction	
<400> asyasy	28 yasya syagaggaga cggtgaccat ga	32
<210><211><211><212><213>	47	
<220> <223>	Description of Artificial Sequence: VH domain reverse primer, second reaction	
<400> asyasy	29 yasya syasyas yasyasyaga ggagacggtg accatga	47
<210> <211> <212> <213>	22	
<220> <223>	Description of Artificial Sequence: VL domain forward primer	
<220> <223>	"rst" can appear from 1 to 50 times before the remainder of the sequence	
<400> rstca	30 gtctg ccctgactca gt	22
<210><211><212><213>	34	
<220> <223>	Description of Artificial Sequence: VL domain reverse primer	
<400> cacco	· 31 :taggt caaccaagga cggtcaggtt ggtc	34

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<211> 37
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: VL domain
      forward primer, first reaction
<400> 32
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rstrstrstr strstrstca gtctgccctg actcagt
<210> 33
<211> 46
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: VL domain
      forward primer, second reaction
<400> 33
                                                                   46
rstrstrstr strstrstrs trstrstcag tctgccctga ctcagt
<210> 34
<211> 15
<212> DNA
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Linker region
      nucleotide sequence
<400> 34
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ggtgctggtg gtggt
<210> 35
<211> 5
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Linker region
      amino acid sequence
<400> 35
Gly Ala Gly Gly Gly
<210> 36
<211> 30
<212> DNA
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<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Linker region
      nucleotide sequence
<400> 36
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actggtggtg gtggtggtag tggtggtggt
<210> 37
<211> 10
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Linker region
      amino acid sequence
<400> 37
Thr Gly Gly Gly Gly Ser Gly Gly
  1
<210> 38
<211> 36
<212> DNA
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Linker region
      nucleotide sequence
<400> 38
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actactacta ctgctactac tgctggtagt ggtgct
 <210> 39
 <211> 12
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: Linker region
       amino acid sequence
 <400> 39
 Thr Thr Thr Ala Thr Thr Ala Gly Ser Gly Ala
                                      10
   1
 <210> 40
 <211> 15
 <212> DNA
 <213> Artificial Sequence
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 <223> Description of Artificial Sequence: Linker region
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nucleotide sequence

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<400> 40
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gctactactg gtgct
<210> 41
<211> 5
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Linker region
      amino acid sequence
<400> 41
Ala Ser Thr Gly Ala
  1
<210> 42
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Linker region
      nucleotide sequence
<400> 42
                                                                    24
agtactggta gtagtggtgc tggt
<210> 43
<211> 8
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Linker region
       amino acid sequence
<400> 43
 Ser Thr Gly Ser Ser Gly Ala Gly
 <210> 44
 <211> 21
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: Linker region
       nucleotide sequence
 <400> 44
                                                                    21
 gctagtagtg gtgctagtgc t
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<210> 45
<211> 7
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Linker region
      amino acid sequence
<400> 45
Ala Ser Ser Gly Ala Ser Ala
  1
<210> 46
<211> 39
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Linker region
      nucleotide sequence
<400> 46
gctagtggtg gtactgctgg tactggtggt agtagtact
                                                                   39
<210> 47
<211> 13
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Linker region
      amino acid sequence
Ala Ser Gly Gly Thr Ala Gly Thr Gly Gly Ser Ser Thr
<210> 48
<211> 51
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Linker region
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<400> 48
actagtggta gtggtgctag tgctgctgct ggtggtgctg ctgctagtgc t
                                                                    51
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<210> 49

<211> 17 <212> PRT <213> Artificial Sequence <220> <223> Description of Artificial Sequence: Linker region amino acid sequence <400> 49 Thr Ser Gly Ser Gly Ala Ser Ala Ala Gly Gly Ala Ala Ser 10 Ala <210> 50 <211> 24 <212> DNA <213> Artificial Sequence <220> <223> Description of Artificial Sequence: Duplex with bubble, upper sequence <400> 50 24 rstrstrstr strstrstca tgcc <210> 51 <211> 24 <212> DNA <213> Artificial Sequence <220> <223> Description of Artificial Sequence: Duplex with bubble, lower sequence <400> 51 24 ggcatgasya syasyasyas yasy